

November 2016

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## Nations sign major deal to curb warming chemicals used for air conditioning

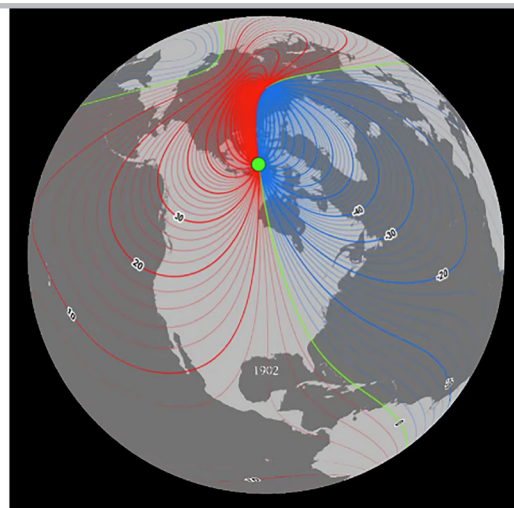
In October, world leaders in Kigali, Rwanda signed a treaty amendment to help tackle climate change. The treaty was originally created to slow destruction of the ozone layer; the new amendment could prevent .5° C of warming by century's end. It calls for countries to curb use of chemicals in air conditioners and refrigerators that have great warming potential. CSD Director David Fahey attended the conference as cochair of the treaty's scientific assessment panel and is quoted in this *Science* article.

## IN OUR COMMUNITY & AWARDS

- Carbon dioxide levels reach record high, ushering in a 'New Era of Climate Reality'
- Meet NOAA Arctic scientist: PSD's Taneil Uttal
- CIRES/ PSD's Gijs de Boer's Arctic blog: Unmanned aircraft on the North Slope of Alaska
- The Department of Commerce is developing a new master plan for its Boulder Laboratories campus
- Elsevier's 2016 Haagen-Smit Prize awarded to GSD and CSD researchers for WRF-Chem research paper
- PSD Researchers Among AMS 2017 Award Winners, New Fellows, and 2018 Lecturers
- CSD's Karen Rosenlof receives AGU Yoram J. Kaufman Unselfish Cooperation in Research Award

## TRENDING

This SOS dataset created by NCEI shows how the magnetic North Pole (not the geographic North Pole) shifts over time. Stats: 27K views, over 775 shares, and 800 impressions.



27K Views

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\*The Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado Boulder and the Cooperative Institute for Research in the Atmosphere (CIRA) at Colorado State University are part of NOAA's research community.

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The international climate change treaty recently signed in Kigali, Rwanda will help protect Earth's fragile atmospheric layers, shown above. Credit: NASA/JSC Gateway to Astronaut Photography of Earth.

## SPOTLIGHT

### Size of 2016 Antarctic ozone hole is nearly average, as expected

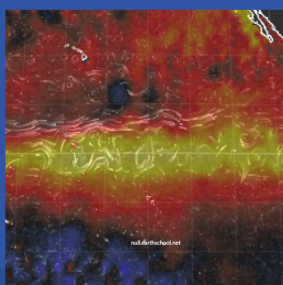
GMD scientists who monitor Earth's ozone hole over the Antarctic every September say its current size is consistent with their expectation and understanding of ozone depletion chemistry and stratospheric weather.

### Study finds fossil fuel methane emissions greater than previously estimated

After assembling a database 100 times larger than used in previous studies, CIRES/ GMD scientist Stefan Schwietzke and team found that leaks from global oil and gas activities are responsible for considerably more methane than previously estimated.

### If Congress invests in seasonal weather forecast research, everyone wins

South Dakota Senator John Thune has introduced Senate Bill 1331, the Seasonal Forecasting Improvement Act, which calls for the reauthorization of the U.S. Weather Research Program through 2020.



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# NOAA Boulder



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**BLDC:** Boulder Labs Diversity Council

**BOCC:** Boulder Outreach and Coordinating Council

**CCOG:** Center for Coasts, Oceans, and Geophysics

**CSD:** Chemical Sciences Division

**CWC:** Center for Weather and Climate

**EEO:** Equal Employment Opportunity

**ESRL:** Earth System Research Laboratory

**GMD:** Global Monitoring Division

**GSD:** Global Systems Division

**NCEI:** National Centers for Environmental Information (formerly NGDC)

**NESDIS:** National Environmental Satellite, Data, and Information Service

**NIDIS:** National Integrated Drought Information System

**NOAA:** National Oceanic and Atmospheric Administration

**NOS:** National Ocean Service

**NWS:** National Weather Service

**OAR:** Office of Oceanic and Atmospheric Research or NOAA Research

**PSD:** Physical Sciences Division

**SWPC:** Space Weather Prediction Center

**WFO:** Weather Forecast Office